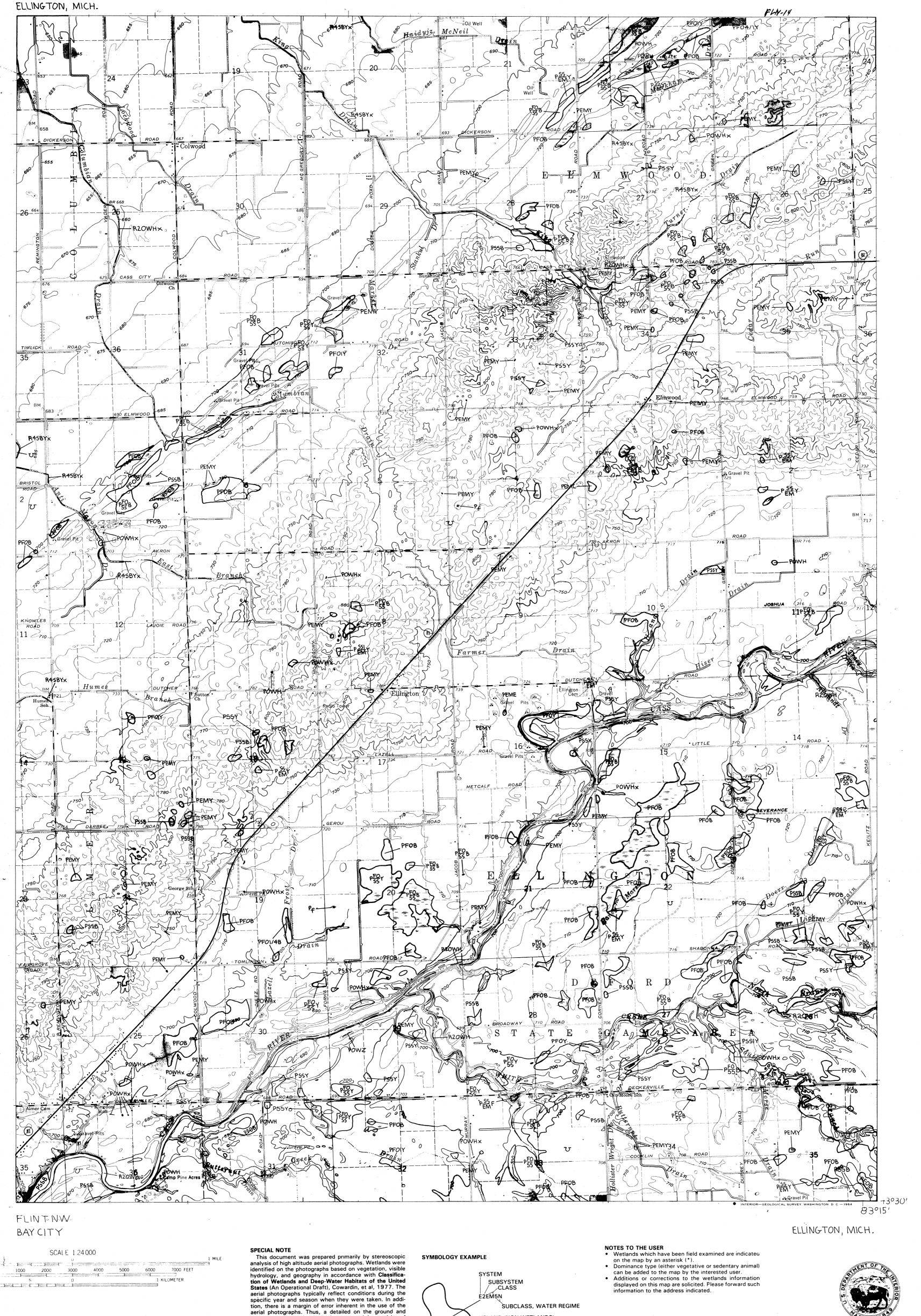
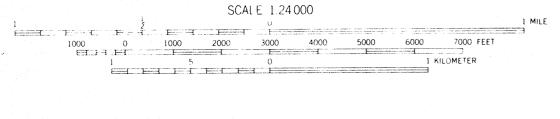
NATIONAL WETLANDS INVENTORY UNITED STATES DEPARTMENT OF THE INTERIOR





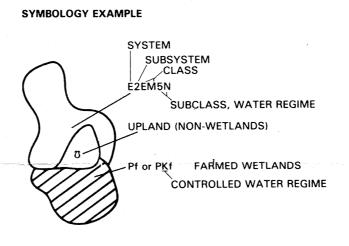
AF 14064C-D

Other information concerning the wetland resources depicted on this document may be available. For information, contact:

> Regional Director (ARDE) Region III U.S. Fish and Wildlife Service Federal Bldg., Ft. Snelling (AD/BSP) Twin Cities, Minnesota 55111

specific year and season when they were taken. In addition, there is a margin of error inherent in the use of the aerial photographs. Thus, a detailed on the ground and historical analysis of a single site may result in a revision of the wetland boundaries established through photographic interpretation. In addition, some small wetlands and those obscured by dense forest cover may not be included on this document.

Federal, State and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, State or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, State or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.



AERIAL PHOTOGRAPHY DATE: 10 / /78 SCALE: 1:80 000 TYPE: B-W



U.S. DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE Prepared by Office of Biological Services for the National Wetlands Inventory

WETLAND LEGEND

(5 - Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.

OLOGICAL SYSTEM						•			. E	- ESTUARINE											M – M/	ARINE					SYSTE
Ecological Subsystem			1 -	Subtidal						·		2 - Int	미 ertidal						1 — Subtidal					2 — Intertidal		-	Ecologi Subsyst
CLASS	RB - ROCK U	IB UNCONSOLID BOTTOM	ATED AR	- AQUATIC BED	RF REFF	OW - OPEN WAT Unknown Bottor	ER/	UATIC BED	T RF - REEF	FL - FLAT	SB - STREAMBED	RS - ROCKY SHORE	BB - BEACH/BAR	EM – EMERG	ENT SS - SCRUB/SHI	RUB FO FORESTED	RB - ROCK BOTTOM	UB - UNCONSOLIDA BOTTOM	TED AB - AQUATIC	BED RF - REEF	OW - OPEN WATE Unknown Botton	ER/ n AB - AQUATIC	BED RF - REE	EF FL - FLAT	RS - ROCKY SHORE	BB - BEACH/BAR	CLASS
Subclass	1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Sub 2 Sub 4 Floa	Submergent Algal Submergent Vascular Floating-leaved Floating Unknown Submergent Unknown Surface	2 Mollusc 3 Worm		1 Submerg	ent Algai ent Vascular n Submergent	3 4 5	1' Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non-pioneer	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	Bedrock Boulder Vegetated Non-pioneer	1 Cobble/Gravel 2 Sand	el 1 Persistent 2 Nonpersistent 3 Narrow-leaved No. 4 Broad-leaved Non; 5 Narrow-leaved Persi 6 Broad-leaved Persi	persistent 5 Dead sistent 6 Deciduous	green 3 Broad-leaved Everg	reen 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Alg 2 Submergent Va: 6 Unknown Subm	il 1 Coral cular 3 Worm rgent		Submergent Alg Submergent Va Unknown Subm	gal 1 Coral scular 3 Worn ergent	al 1 Cobble/Grave m 2 Sand 3 Mud 6 Vegetated Non-pioneer	al 1 Bedrock 2 Boulder 6 Vegetated Non-pioneer	1 Cobble/Gravel 2 Sand	Gravel Subclas
OLOGICAL																		L – LACUSTRINE							ECOLO SYS1		
SYSTEM							P - PALUS	TRINE											.,			2 — Littoral					Ecolog Subsys
Subsystem		<u> </u>	T					T		T	ı	0₩	OPEN WATER/			1 - Limnetic	_					2 - Littorai				1	,
CLASS	RB - ROCK U	BOTTOM	AB	- AQUATIC BED	FL -		LICHEN	EM - EMERGER		SS - SCRUB/SHRUB	FO - FOREST	ED Unk	nown Bottom	F	B - ROCK UB - UNCONSOLID. BOTTOM BOTTOM	ATED AB - AQUATIC BED	OW - OPEN WATER/ Unknown Bottom	RB - ROCK BOTTOM	UB - UNCONSOLIDATE BOTTOM	D AB - AQUA	TIC BED	FL - FLAT	S - ROCKY SHORE BB -	- BEACH/BAR EN		W - OPEN WATER/ Unknown Bottom	CLA
Subclass	1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	5 FI04	Submergent Algal Submergent Vascular Submergent Moss Floating-leaved Floating Unknown Submergent Unknown Surface	Cobble/Grave Sand Mud Organic Vegetated Pic Vegetated No	2 Lichen Pioneer	Lichen 2 No 3 Na 4 Bro 5 Na	sistent npersistent row-leaved Nonpe ad-leaved Nonpe row-leaved Persi ad-leaved Persist	ersistent 3 sistent 4 stent 5 ent 6	Broad-leaved Deciduous Needle-leaved Deciduous Broad-leaved Evergreen Needle-leaved Evergreen Dead Deciduous Evergreen	Broad-leaved Deci Needle-leaved Deci Broad-leaved Ever Needle-leaved Ever Dead Deciduous Evergreen	eciduous ergreen		1	Bedrock 1 Cobble/Gravel Boulder 2 Sand 3 Mud 4 Organic	Submergent Algal Submergent Vascula Submergent Moss Floating-leaved Floating Unknown Submerger Unknown Surface	ir ent	1 Bedrock 2 Boulder	ck 1 Cobble/Gravel er 2 Sand 3 Mud 4 Organic	1 Submergent Alg 2 Submergent Va 3 Submergent Mo 4 Floating-leaved 5 Floating 6 Unknown Subm 7 Unknown Surfar	ved 4 Org 5 Veg	ible/Gravel 1 d 2 d 3 d 3 d 5 d 6 d 7 d 7 d 7 d 7 d 7 d 7 d 7 d 7 d 7 d 7		Sand 3	2 Nonpersistent 3 Narrow-leaved No 4 Broad-leaved Non	opersistent persistent	Subcla
																		МО	DIFYING TER	MS			,		-]
OLOGICAL SYSTEM		R — RIVERINE										In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.															
Ecological Subsystem	1 — Tidal 2 — Lower Perennial 3 — Upper Perennial 4 — Intermittent 5 — Unknown Perennial									WATER REGIME(1)					WATER CHEMISTRY				SOIL		SPECIAL MODIFIERS]				
CLASS	FM FMERGEN	NT(t)	B - ROCK UE	- UNCONSOLIDA	TED AB -	AQUATIC BED	FL FLA	T SB	- STREAMBE	RS - ROCKY SHORE BB -	BEACH/BAR Un	- OPEN WATER/ known Bottom			Non-Tidal		Tidal	1	Coastal Salinity	Inland Salinity	•	for all Fresh Wat	er g Organic n Mineral	b Beaver I d Partially Dra f Farmed	eined/Ditched r	Diked/Impounded Artificial Spoil	
Subclass	2 Nonpersisten	nt ad Nonpersistent		1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submo 2 Submo 3 Submo 4 Floatin 5 Floatin	ergent Algal ergent Vascular ergent Moss ng-leaved	Cobble/Gravel Sand Mud Organic Vegetated Pio Vegetated No	1 Ci 2 Si 3 M 4 Oi	obble/Gravel and ud ganic	1 Bedrock 1 C 2 Boulder 2 S	obble/Gravel and		C D E F	Temporary Saturated Seasonal Seasonal Well-drained Seasonal Saturated Semipermanent Intermittently Exposed	H Permanent J Intermittently Flooded K Artificial Z Intermittently Exposed/Pern W Intermittently Flooded/Tem Y Saturated/Semipermanent/S U Unknown	orary P Irregular	R Sessons S Tempora posed T Semipora V Permane U Unknow	rry Tidal 2 manent Tidal 3 ent Tidal 4 n 5	Hyperhaline Euhaline Mixohaline (Brackish) Polyhaline Mesohaline Oligohaline Fresh	7 Hypersaline 8 Eusaline 9 Mixosaline 0 Fresh	a / t (Acid Circumneutral Alkaline	· .	, rameu		Excavated	